

Date: Monday, 10/22/2007 10:34:21 AM  
 User: Kim Johnston

## Process Sheet

Customer	: CU-DAR001 Dart Helicopters Services	Drawing Name	: FWD X-TUBE
Job Number	: 35258		
Estimate Number	: 10006		
P.O. Number	: <i>NIA</i>	Part Number	: D2889
This Issue	: 10/22/2007 S.O. No. : <i>NIA</i>	Drawing Number	: D2889 REV B
Prsht Rev.	: NC	Project Number	: N/A
First Issue	: <i>NIA</i> Type : LANDING GEAR	Drawing Revision	: B
Previous Run	: 35187	Material	: <i>NIA</i>
Written By	:	Due Date	: 11/5/2007
Checked & Approved By	: <i>[Signature]</i> 07.10.22	Qty:	1 Um: Each
Comment	: Est Rev: New Issue 05-10-25 JLM		

Additional Product

Job Number:



Seq. #:	Machine Or Operation:	Description :
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1.0	D6005180	Crosstube material
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Comment: Qty.: 1.0000 Each(s)/Unit Total : 1.0000 Each(s)  
 Crosstube material  
 Pick:

Qty	Part number	Description	Batch
1	D2889	Fwd Crosstube	<i>023963</i> <i>*</i>

*- EL 7-10-22*

2.0	BENDING	BENDING MACHINE
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Comment: LANDING GEAR RESOURCE 1  
 1-Bend D2889 as per Dwg D2889 and Folio FT001

*EL 7-10-22*

3.0	LANDING GEAR 1	LANDING GEAR RESOURCE 1
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Comment: LANDING GEAR RESOURCE 1

1-Deburr and Polish

*NIA*

4.0	QC6	DIMENSIONAL CHECK
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Comment: DIMENSIONAL CHECK

*EL 10-24-11*

5.0	HAND FINISHING1	HAND FINISHING RESOURCE #1
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Comment: HAND FINISHING RESOURCE #1  
 Acid etch and alodine as per QSI 005 4.1  
 Inside and outside of tube

*NIA*

# Dart Aerospace Ltd

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: \_\_\_\_\_ PAR #: \_\_\_\_\_ Fault Category: \_\_\_\_\_ NCR: Yes ☒ No ☐ DQA: D Date: 07/10/2016  
 QA: N/C Closed: \_\_\_\_\_ Date: \_\_\_\_\_

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

Date: Monday, 10/22/2007 10:34:21 AM  
User: Kim Johnston

## Process Sheet

Customer: CU-DAR001 Dart Helicopters Services

Drawing Name: FWD X-TUBE

Job Number: 35258

Part Number: D2889

Job Number:



Seq. #:

Machine Or Operation:

Description :

6.0

QC3

INSPECT POWDER COAT/CHEMICAL CONVERSION



*NIA*



Comment: INSPECT POWDER COAT/CHEMICAL CONVERSION

7.0

PACKAGING 1

PACKAGING RESOURCE #1



Comment: PACKAGING RESOURCE #1

Identify and Stock

Location: *W10 35221 -105*

8.0

QC21

FINAL INSPECTION/W/O RELEASE



Comment: FINAL INSPECTION/W/O RELEASE

*12/10/06*

Job Completion



*4 07.1026*

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: \_\_\_\_\_ PAR #: \_\_\_\_\_ Fault Category: \_\_\_\_\_ NCR: Yes No DQA: \_\_\_\_\_ Date: \_\_\_\_\_

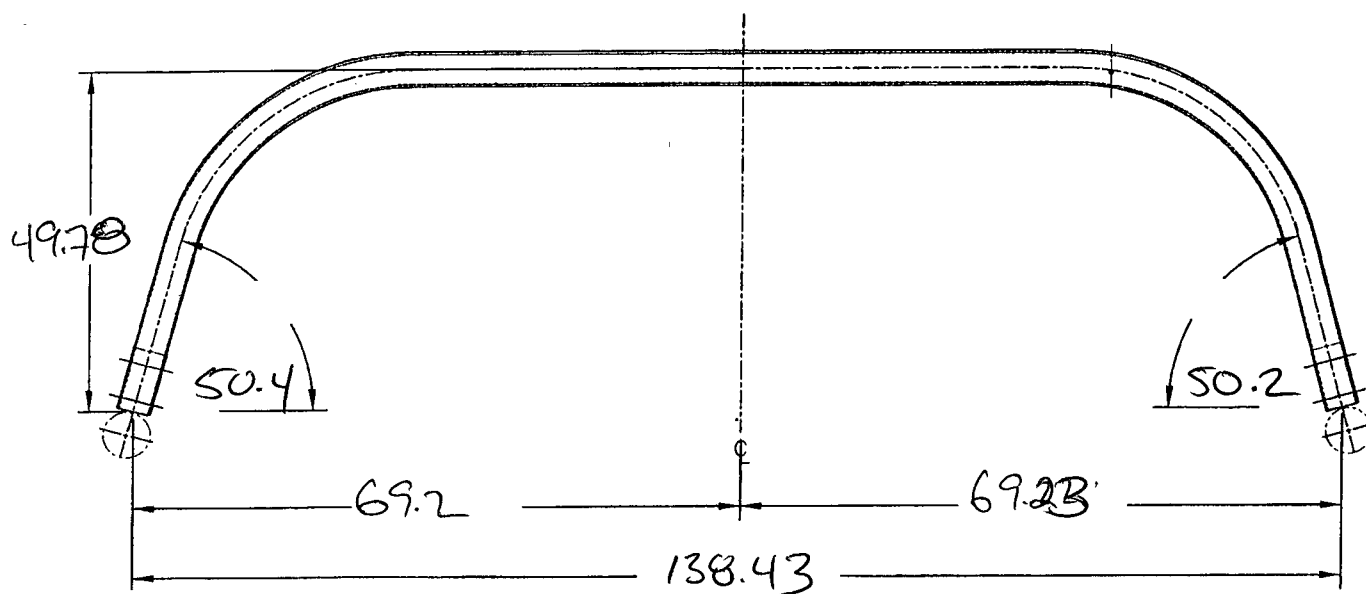
QA: N/C Closed: \_\_\_\_\_ Date: \_\_\_\_\_

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

DART AEROSPACE LTD		Work Order:	35258
Description: Crosstube Fwd		Part Number:	D2889
Inspection Dwg: D2889 Rev: B		Page 1 of 1	

Required Dimension	Min	Max
Height	49.875	50.125
1/2 Span	69.275	69.525
Angle	49	52
Total Span	138.55	139.05



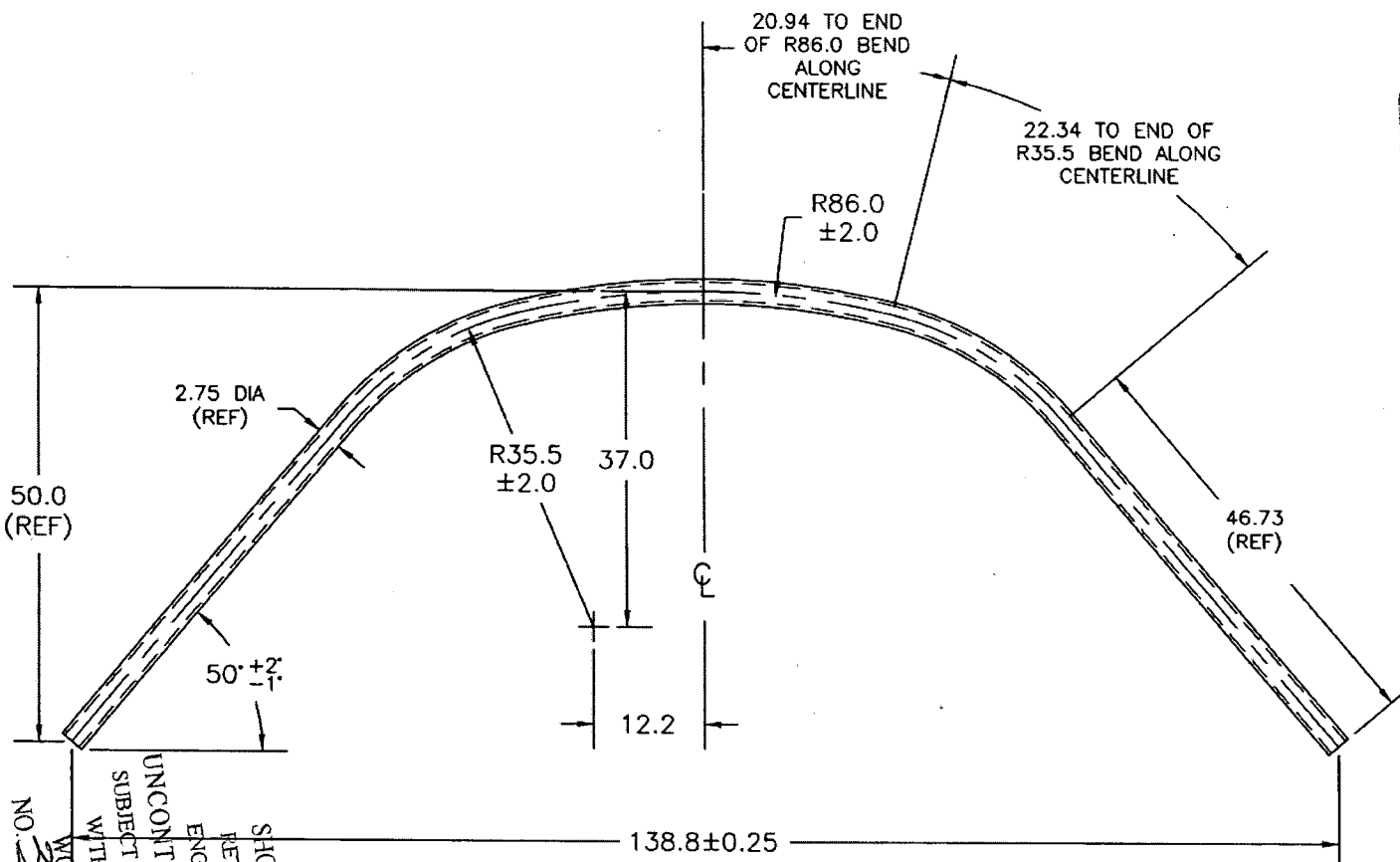
Comments
Tube is perfect for B35221 -105

QC15 Inspection	QSI012
Date	07-10-24

Rev	Date	Change	Revised by	Approved
A	07.02.06	New Issue	KJ/JM	<i>[Signature]</i>

**DART****RELEASED**  
02.10.28

DESIGN	DRAWN BY	DART AEROSPACE LTD	
#	CP	HAWKESBURY, ONTARIO, CANADA	
CHECKED	APPROVED	DRAWING NO.	REV. B
#	#	D2889	SHEET 1 OF 1
DATE	TITLE	SCALE	
02.10.18	FWD CROSSTUBE	1:20	
A	99.05.21	NEW ISSUE	
B	02.10.18	ADD TANGENT LENGTHS; CHANGE NOTES	



SHOP COPY  
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ENGINEERING  
UNCONTROLLED COPY  
SUBJECT TO AMENDMENT  
WITHOUT NOTICE  
WORK ORDER  
NO. 35258

**NOTES**

- 1) MATERIAL: MANUFACTURE FROM D6005-180 ( $\phi 2.75$  OD x 0.375 WALL)
- 2) FINISH: CHEMICAL CONVERSION COAT PER DART QSI 005 4.1
- 3) PART IS SYMMETRIC ABOUT CENTERLINE
- 4) TOLERANCES ARE PER DART QSI 018 UNLESS OTHERWISE NOTED
- 5) BEND PROGRESSIVELY WITH MINIMUM OF 3 PASSES
- 6) EXTREME CARE MUST BE TAKEN TO PROTECT THE OUTSIDE SURFACE OF THE TUBE. THE OUTSIDE SURFACE MUST BE SMOOTH AND FREE FROM SURFACE DEFECTS SUCH AS SCRATCHES, NICKS, OR DENTS. DEFECTS UP TO 0.005" MAY BE BLENDED OUT LONGITUDINALLY. CIRCUMFERENTIAL GRIND MARKS ARE UNACCEPTABLE.